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N THE WIFE D STATES PATENT AND TRADEMARK OFFICE

Applicant:

Matsuda

Serial Number:

10/528,900

Filed (also 371 date):

23 March 2005

International Application:

PCT/JP02/10104 filed 27 September 2002

Group Art Unit:

2877

Examiner:

unknown

Confirmation Number:

4167

Title:

Flow Cell And Particle Measuring Apparatus

Using The Same

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner For Patents Post Office Box 1450 Alexandria, Virginia 22313-1450

Sir:

With respect to the identified patent application, applicant respectfully requests a corrected filing receipt with the following corrections:

Please correct the "Title" from "Flow cell, and particle measurement device using the same" to --Flow cell and particle measuring apparatus using the same--.

This requested correction is in accordance with the specification as filed in the United States Patent And Trademark Office (a copy of page 1 of which is attached), in accordance with the Transmittal Letter To The United States Designated/Elected Office filed with the new application (a copy of which is attached), and in accordance with the Application Data Sheet filed with the new application (a copy of page 1 of which is attached).

Applicant also encloses a hand-amended copy of the filing receipt showing the requested correction.

Favorable consideration is respectfully requested.

Respectfully submitted,

Customer Number 21828 Carrier, Blackman & Associates, P.C. 24101 Novi Road, Suite 100 Novi, Michigan 48375 30 September 2005

Joseph P. Carrier

Attorney for Applicant Registration No. 31,748

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PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vinginia 22313-1450

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/528,900	03/23/2005	2877	900	KNI-201-A	4	15	2

CONFIRMATION NO. 4167

21828 CARRIER BLACKMAN AND ASSOCIATES 24101 NOVI ROAD SUITE 100 NOVI, MI 48375 FILING RECEIPT

OC000000017004220

RECEIVED SEP 2 6 2005

Date Mailed: 09/16/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Tomonobu Matsuda, Tokyo, JAPAN;

Assignment For Published Patent Application

Rion Co., Ltd., Tokyo, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 21828.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP02/10104 09/27/2002

Foreign Applications

Projected Publication Date: 12/22/2005

Non-Publication Request: No

Early Publication Request: No

Title

FLOW CELL AND PARTICLE MEASURING APPARATUS

Flow cell, and particle-measurement device-using the same USING THE SAME

Preliminary Class

356

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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10/528900

JC14 Rec'd PCT/PTO 23 MAR 2005

KNI-201-A

DESCRIPTION

FLOW CELL AND PARTICLE MEASURING APPARATUS USING THE SAME

5 Technical Field

[001]

The present invention relates to a flow cell for flowing sample fluid therethrough to detect light scattered by particles contained in the sample fluid when irradiated with light so as to obtain information such as a particle diameter, and also relates to a particle measuring apparatus using the flow cell.

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Background Art

[002]

A flow cell 100 used for a conventional particle measuring apparatus as shown in FIG. 6(a) is made of a transparent member, and provided with a linear passage 100a having a predetermined length, the cross-sectional shape of which is rectangular. Also, the shape of the flow cell is an L-shaped tube as a whole. The central axis of the linear passage 100a substantially corresponds with the axis of receiving scattered light Ls by a condenser lens system 101 (See Japanese Patent Application Publication No. 11-211650). Incidentally, reference number 102 refers to a laser light source, and reference number 103 refers to a photoelectric transducer element.

[003] 20

In the flow cell 100 used for a conventional particle measuring apparatus, inner walls b, c, d, and e unpreferably limit the path of light scattered Ls by particles passing through a particle monitoring area M, and the condensing angle of the condenser lens system 101 cannot be fully utilized.

[004]

In order to make the level of detecting scattered light Ls so as to improve the accuracy of detecting particles, it is necessary to fully utilize the condensing angle of the condenser lens system 101.

[005]

The present invention was made to solve the above-mentioned drawbacks, and the object of the present invention is to provide a flow cell which can detect scattered light more efficiently by fully utilizing the condensing angle of a condenser means, and JC03 Rec'd PCT/PTO 2 3 MAR 2005 (Rev. 02-2005)

Approved for use through 3/31/2007. OMB 0551-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER KNI-201-A IIIS APPLICATION NO JEHOWO, see 37 CFR 1.5)

CONCERNING A SUBMISSIO	ON UNDER 35 U.S.C. 371	10/528900	ļ						
INTERNATIONAL APPLICATION NO. PCT/JP02/10104	international filing date 27 Sept 2002	PRIORITY DATE CLAIMED							
TITLE OF INVENTION -FLOW CELL AND PARTICLE MI	ASHRING APPARATHS HSING	THE SAME							
APPLICANT(S) FOR DO/EO/US Tomonobu MATSUDA									
		O/US) the following items and other information:							
1. XXX This is a FIRST submission of items co	ncerning a submission under 35 U.S.C. 37	•							
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.									
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.									
4. XXX The US has been elected (Article 31).									
. XXX A copy of the International Application as filed (35 U.S.C. 371(c)(2))									
a. is attached hereto (required	a. is attached hereto (required only if not communicated by the International Bureau).								
b. XXX has been communicated by	b. XXX has been communicated by the International Bureau.								
c. is not required, as the appli	c. is not required, as the application was filed in the United States Receiving Office (RO/US).								
6. An English language translation of the	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).								
a. XXX is attached hereto.	a. XXX is attached hereto.								
	b. has been previously submitted under 35 U.S.C. 154(d)(4).								
7, XXX Amendments to the claims of the Inte	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))								
a. are attached hereto (requi	a. are attached hereto (required only if not communicated by the international Bureau).								
b. have been communicated	b. have been communicated by the International Bureau,								
VVV	c. have not been made; however, the time limit for making such amendments has NOT expired.								
,	d. AXX have not been made and will not be made.								
8. An English language translation of th	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).								
<u></u>	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
10. An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E	xamination Report under PCT							
Items 11 to 20 below concern document(s) or Information included:								
11. XXX An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.								
	g. A separate cover sheet in compliance wi	th 37 CFR 3.28 and 3.31 is included.							
13. XXX A preliminary amendment.	·								
14. An Application Data Sheet under 37 (An Application Data Sheet under 37 CFR 1.76.								
15. A substitute specification.									
16. A power of attorney and/or change of	address letter.								
17. A computer-readable form of the sequ	A computer-readable form of the sequence listing in accordance with PCT Rule 13/er.2 and 37 CFR 1.821- 1.825.								
	national Application under 35 U.S.C. 154(d)								
19. A second copy of the English language	e translation of the international application Amendments under PCT Ar national Search Report	under 35 U.S.C. 154(d)(4). ticle 34	mi Renort						
20. XXX Other items or information: Inter	national Search Report	, International Preliminary Exa	n: Keborc						

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

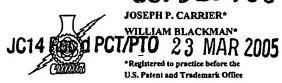
Page 1 of 2

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EXPRESS MAIL CERTIFICATE NO. ED150633096US

Mail Stop PCT Commissioner For Patents PO Box 1450 Alexandria VA 22313-1450 23 March 2005

APPLICATION DATA SHEET INCLUDING BIBLIOGRAPHIC DATA, APPLICATION TRANSMITTAL, AND CERTIFICATE OF MAILING

Sir:

Enclosed please find an application for 371 U.S. National Phase Letters Patent as identified below:

Title Of Invention:

FLOW CELL AND PARTICLE MEASURING

APPARATUS USING THE SAME

Application Type:

371 U.S. National Phase of International Patent

Application PCT/JP02/10104 filed 27 September 2002

Attorney Docket Number:

KNI-201-A

Correspondence

Customer Number:

21828

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Publication Data:

Publication Filing Type:

new utility

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NOTE: PAIR calls this item "Preliminary Amendment". (whiz-bang work, there.)